

ABSTRACT:

The invention provides a method for obtaining additional information about DNA mixtures arising from a variety of sources and / or a variety of concentrations. In particular, the invention provides a method for indicating the likelihood that a DNA mixture arose from sources of a defined type where:- the DNA mixture is formed by DNA samples from more than one source, the method involving the determination of the identity of the alleles present at a locus for the DNA in the mixture; determining a first probability function for the situation where the DNA mixture is formed from samples arising from the given person and from a first other person; determining a second probability function for the situation where the DNA mixture is formed from samples arising from a second other person and a first other person; using the first probability function as numerator and the second probability function as denominator in determining a likelihood ratio for the mixture having arisen from the defined type of sources considered in the first probability function; determining such likelihood ratios for a plurality of loci; and combining the likelihood ratios to give a combined likelihood ratio for the mixture having arisen from the defined type of sources considered in the first probability function.

CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EL649974065US

Date of Deposit: December 22, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

By:

Name: Brant Miles

Brant Miles